

Listing of Claims

This listing of claims will replace all prior versions and listings of claims in the application.

Claims 1-4. (Cancelled)

Claim 5. (New) A method for preparing

- 12-hydroxyeicosatetraenoic acid or 12-HETE, and
- 11,12-epoxyeicosatrienoic acid or 11,12-EET,

which are oxidation metabolites of arachidonic acid, said method comprising

- culturing thalluses of the red algae *Chondrus Crispus*,
- culturing isolates of the green algae *Achrochaete Operculata* to obtain an *Achrochaete Operculata* biomass,
- preparing an extract from said *Achrochaete Operculata* biomass,
- incubating the result of the culture of the *Chondrus Crispus* thalluses with the extract obtained from the *Achrochaete Operculata* biomass,
- centrifugating the result of the incubation and obtaining a supernatant
- removing the supernatant and recovering therefrom the 12-HETE and the 11,12-EET.

Claim 6. (New) A method according to Claim 5 for preparing

- 12-hydroxyeicosatetraenoic acid or 12-HETE, and
- 11,12-epoxyeicosatrienoic acid or 11,12-EET,

which are oxidation metabolites of arachidonic acid, said method comprising

- culturing thalluses of the red algae *Chondrus Crispus*,

- culturing isolates of the green algae *Achrochaete Operculata* to obtain an *Achrochaete Operculata* biomass,
- subjecting said *Achrochaete Operculata* biomass to freezing in liquid nitrogen, thus providing a frozen biomass of *Achrochaete Operculata*,
- maintaining the frozen biomass of *Achrochaete Operculata* in the liquid nitrogen and reducing it to powder,
- evaporating the liquid nitrogen,
- taking up the powder in an extraction buffer to obtain a mixture of the powder and the extraction buffer and carrying out an extraction,
- subjecting to centrifugation the mixture obtained by taking up the powder in the extraction buffer, providing thus a supernatant and recovering the supernatant,
- removing a sample of gametophytes from the culture of thalluses of *Chondrus Crispus*,
- incubating the said sample of gametophytes with said recovered supernatant, thus activating phospholipases which release arachidonic acid as well as lipoxygenases and cytochrome P450 under the respective action of which 12-HETE and 11,12-EET are formed from the arachidonic acid,
- extracting 12-HETE and 11,12-EET with diethyl ethers from the incubated sample of gametophytes.

Claim 7. (New) A method according to Claim 5 for preparing

- 12-hydroxyeicosatetraenoic acid or 12-HETE, and
- 11,12-epoxyeicosatrienoic acid or 11,12-EET,

which are oxidation metabolites of arachidonic acid, said method comprising

- culturing thalluses of the red algae *Chondrus Crispus*,

- culturing isolates of the green algae *Achrochaete Operculata* to obtain an *Achrochaete Operculata* biomass,
- subjecting said *Achrochaete Operculata* biomass to freezing in liquid nitrogen, thus providing a frozen biomass of *Achrochaete Operculata*,
- maintaining the frozen biomass of *Achrochaete Operculata* in the liquid nitrogen and reducing it to powder,
- maintaining the frozen biomass of *Achrochaete Operculata* in the liquid nitrogen and reducing it to powder,
- evaporating the liquid nitrogen,
- taking up the powder in an extraction buffer to obtain a mixture of the powder and the extraction buffer and carrying out an extraction,
- subjecting to centrifugation the mixture obtained by taking up the powder in the extraction buffer, providing thus a supernatant and recovering the supernatant,
- removing a sample of gametophytes from the culture of thalluses of *Chondrus Crispus*,
- incubating the sample of gametophytes with the said supernatant, thus activating phospholipases which release arachidonic acid, as well as lipoxygenases and cytochrome P450 under the respective action of which 12-HETE and 11,12-EET are formed from the arachidonic acid,
- grinding in liquid nitrogen the sample of incubated gametophytes,
- suspending in a tris-HCl buffer the product resulting from the grinding,
- centrifugating the suspended product providing a supernatant,
- recovering the supernatant and diluting it with tris buffer,

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- extracting 12-HETE and 11,12-EET with diethyl ether from the diluted supernatant.